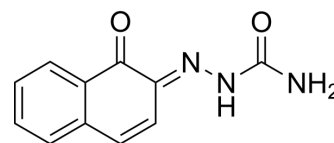


Naftazone

Cat. No.:	HY-108011		
CAS No.:	15687-37-3		
Molecular Formula:	C ₁₁ H ₉ N ₃ O ₂		
Molecular Weight:	215.21		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (464.66 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	4.6466 mL	23.2331 mL	46.4662 mL
			5 mM	0.9293 mL	4.6466 mL	9.2932 mL
			10 mM	0.4647 mL	2.3233 mL	4.6466 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.62 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Naftazone is a naphthoquinone derivative, it can be used for the research of venous insufficiency. Naftazone protects blood vessels, increases venous tonicity and capillary resistance, and improves lymphatic and venous circulation ^{[1][2]} .	
In Vitro	Naftazone (0.5-50 μM; 1 h) reduces glutamate release from mouse cerebellum synaptosomes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Naftazone (10 and 100 mg/kg; p.o. once per day for 15 days) affects glutamate content in cerebro spinal fluid ^[1] . Naftazone (50 mg/kg; i.p. once per day for 5 days) affects platelet function in rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male rats ^[1]

Dosage:	10 and 100 mg/kg
Administration:	Oral gavage; 10 and 100 mg/kg once per day; for 15 days
Result:	Significantly reduced glutamate content in cerebro spinal fluid of rats.
Animal Model:	Wistar rats ^[2]
Dosage:	50 mg/kg
Administration:	Intraperitoneal injection ; 50 mg/kg once daily for 5 days
Result:	Reduced the height of platelet aggregation induced by ADP, significantly increased the platelet disaggregation induced by collagen and reduced fibrinogen binding to 2.5 or 5 μ M ADP-stimulated platelet.

REFERENCES

[1]. Mattei C, et al. Naftazone reduces glutamate cerebro spinal fluid levels in rats and glutamate release from mouse cerebellum synaptosomes. *Neurosci Lett.* 1999 Aug 27;271(3):183-6.

[2]. McGregor L, et al. Effect of naftazone on in vivo platelet function in the rat. *Platelets.* 1999;10(1):66-70.

Caution: Product has not been fully validated for medical applications. For research use only.

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